

Muon Campus AIP

Change Request Form

CR#: RRF001		
1) DATE: 8/22/13	2)WBS: RRF1	3) Originator: Ken Domann
O WIDG D	CD: ACC / I	T. I. D. I. DE AID
(4) WBS Description	of Primary Affected	Tasks: Recycler RF AIP
Project Plan baselined (TEC) plus \$1,984,88. contained in Microsof values for TEC and correct Plan was submerefine the plan; (2) It will the contingency set as AIP's are not subject to calculations. Because results in a reduction in charged for TSCS, the budget profiles submit	this AIP @\$8,601,165 of contingency. The Project. After the scontingency changed. In the following that the feet of this purchase who the TSCS overhead this rate is compound in contingency and an econtingency is "hidden the Project Plan Funding constraints has been contingency and an econtingency is "hidden the Project Plan Funding constraints has been contingency in the Project Plan Funding constraints has been contingency in the Project Plan Funding constraints has been contingency in the Project Plan Funding constraints has been contingency in the Project Plan Funding constraints has been contingency in the Project Plan Funding constraints has been contingency in the Project Plan Funding constraints has been contingency in the Project Plan Funding constraints has been contingency in the Project Plan Funding constraints has been contingency in the Project Plan Funding constraints has been contingency in the Project Plan Funding Constraints has been contingency in the Project Plan Funding Constraints has been contingency in the Project Plan Funding Constraints has been contingency in the Project Plan Funding Constraints has been contingency in the Project Plan Funding Constraints has been contingency in the Project Plan Funding Constraints has been contingency in the Project Plan Funding Constraints has been contingency in the Project Plan Funding Constraints has been contingency in the Project Plan Funding Constraints has been contingency in the Project Plan Funding Constraints has been contingency in the Project Plan Funding Constraints has been contingency in the Project Plan Funding Constraints has been contingency in the Project Plan Funding Constraints has been contingency in the Project Plan Funding Constraints has been continued to the Project Plan Funding Constraints has been continued to the Project Plan Funding Constraints has been continued to the Project Plan Funding Constraints has been continued to the Project Plan Funding Constraints has been continued to the Project Plan Funding Constraints ha	ivation for Change: The approved Recylcer RF 55 TPC. This included \$6,616,280 of budgeted work ese values were extracted from the schedule which is chedule, labor and M&S data was imported into Cobra the This result was for the following reasons: (1) After the mor revisions were made to the labor and M&S to further errite order would be higher than originally estimated so was added to the bugeted amount; (3) Although the Muon charge (3.7%), this indirect value is in the Cobra rate ded with other rates, the net effect is around 6%. This increase in the budget. Since the AIP's will not be en" in the indirect budget; (4) The original schedule and in assumed RF installation in have pushed this installation to the FY16 shutdown. The
6) Assessment of Cos impact. See attachme		ments if needed): See above analysis of cost
7) Assessment of Sch	edule Impact (Use at	ttachments if needed): See attachment #2.
		Because the entire Muon Campus was impacted
are still in line with th		stallation which would otherwise impact the g-2 schedule,
9) Approvals: AIP Project Manage AIP Project Coordin AD Div Director: Directorate:		Signature/Date: 08/22/13 Signature/Date: 8/22/13 Signature/Date: 8/22/13 Signature/Date: 8/22/13

Recycler RF AIP Budget Comparison Attachment #1

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		Original Project					
		Plan (PP) Budget	New Budget	Original PP	Original PP New Contingency Original PP	Original PP	
WRS	Name	(w/o Cont)	(w/o Cont)	Contingency **	* *	TPC New TPC	New TPC
RRF1	RRF1 Recycler RF AIP	\$6,616,280	\$6,971,480	\$1,984,885	\$1,629,685	\$1,629,685 \$8,601,165 \$8,601,165	\$8,601,165
RRF1 01	RRF1.01 Recycler Management	\$248,536	\$351,241				
RRF1.01.02	RRF1.02 RF	\$6,367,744	\$6,620,239				
RRF1.01.02.01	RRF1.02.01 Recycler Cavities & Power Amplifiers	\$5,273,638	\$5,502,642				
RRF1.01.02.02	RRF1.02.02 Recycler RF Cooling	\$500,836	\$516,967				
RRF1.01.02.03	RRF1.02.03 Recycler Low Level RF	\$200,636	\$206,339				
RRF1.01.02.04	RRF1.02.04 Recycler RF Installation	\$392,634	\$394,291				
** Contingency	** Contingency no longer maintained at detail level						

Namo	Recycler F	
Dato	Recycler RF Milestones -	Attachment #2
301E	- FY16 Installation	it #2
2016		

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Project Date: 8	01					0			88 -			ω,		7		92 H		Uniq	
Project: Recycler RF AIP 14Mar2013 Date: 8/22/13	RRF1.01.01.02.02	RRF1.01.01.01.07	RRF1.02.04.08	RRF1.01.01.01.13	RRF1.01.01.01.11	RRF1.02.02.05	RRF1.01.01.01.12	RRF1.01.01.01.10	RRF1.02.03.06	DDF1 02 03 06	RRF1.01.01.01.09	RRF1.02.01.14	RRF1.01.01.01.14	RRF1.02.01.13	RRF1 01 01 01 08	RRF1.01.01.01.01		WBS	
14Mar2013	Recycler AIP	Finish FY16	RRF Installat	Service Bldg	Finish Tunnel Installation	RRF Water S	Begin Servic	Begin Tunnel Installation	Start FY16 SD	Muze Cavitie	Finish Cavity Assembly	RRF Cavities	PO for Cavity	RRF New Fe	Finish RF Ca	Start Recycler AIP PO for Ferrites Awarded	-		
Task	Recycler AIP Complete (g-2 Interface)	SD	RRF Installation Complete	Service Bldg Installation Complete	I Installation	RRF Water Skid Assembly Complete	Begin Service Bldg Installation	Installation	Start FY16 SD Start FY16 SD	s Assembled	Assembly	RRF Cavities Assembly Complete	PO for Cavity Parts Awarded	RRF New Ferrites Received	Finish RF Cavity Ferrite Cooling Tests	r AIT S Awarded	and the contract of the	Name	
	 2 Interface)			omplete		Complete	tion		bly Complete	Muze Cavitles Assembled (Muze Interrace)		mplete	ed	α	olina Tests		WORKER EFFECTIVE VEHICLES STATES STATES STATES STATES AND	le	Recycler RF
Progress	9/30/16	9/1/16	8/31/16	8/31/16	8/31/16	8/17/16	7/1/16	7/1/16	7/1/16	3/30/16	1/20/16	1/12/16	12/9/14	6/30/14	3/18/14	6/3/13 7/1/13		Date	⋜.
														4	•		Q2 Q3		Attachment #2 Milestones - FY
Milestone														•			Q4		16
ne 🔷													•				Q1 Q2	2015	Installation
Summary																	Q3 Q4		
nary ₩										•	•	•					Q1 Q2	2016	
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	•		•	•	•	•	(a) (b) a a						:4		* * * *	,,,,,,,,,	Q4 Q1	2017	

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Start Recycler AIP 5/1/13 ♦ PO for Ferrites Awarded 5/30/13 PO for Ferrite Cooling Tests 12/20/13 PO for Cavity Ferrite Cooling Tests 12/20/13 PO for Cavity Parts Awarded 12/23/13 RRF New Ferrites Received 5/29/14 RRF Cavities Assembly Complete 1/26/15 Finish Cavity Assembly Finish Cavity Assembly Complete 2/2/15 RRF Water Skid Assembly Complete 2/19/15 Mu2e Cavities Assembled (Mu2e Interface) 4/13/15 Start FY15 SD 6/1/15		92 122 94 123 93 95 124 127 127 121 128 88 96 98 99 99 99
S/1/13		RRF1.01.01.01 RRF1.01.01.01 RRF1.01.01.01 RRF1.01.01.01 RRF1.01.01.11 RRF1.01.01.11 RRF1.01.01.11 RRF1.01.01.11 RRF1.01.01.11 RRF1.01.01.11 RRF1.01.01.11 RRF1.01.01.11 RRF1.01.01.11 RRF1.01.01.11 RRF1.01.01.11 RRF1.01.01.11
S/1/13		Start R PO for Finish PO for RRF N RRF W Mu2e (Start F Begin Begin RRF L Finish RRC RRR RRC RRC RRC RRC RRC RRC RRC RRC
S/1/13		Start Recycler AIP PO for Ferrites Awarded Finish RF Cavity Parts Awar PO for Cavity Parts Awar RRF New Ferrites Receiv RRF Cavities Assembly Finish Cavity Assembly RRF Water Skid Assemble Start FY15 SD Begin Tunnel Installation Begin Service Bldg Instal RRF Low Level RF Asser Finish Tunnel Installation Service Bldg Installation Service Bldg Installation Finish Tunnel Installation Finish Tunnel Installation Finish Tunnel Installation Finish FY15 SD
5/1/13		Start Recycler AIP PO for Ferrites Awarded Finish RF Cavity Ferrite Cooling Tests PO for Cavity Parts Awarded RRF New Ferrites Received RRF Cavities Assembly Complete Finish Cavity Assembly RRF Water Skid Assembly Complete Mu2e Cavities Assembled (Mu2e Interfac Start FY15 SD Begin Tunnel Installation Begin Service Bldg Installation RRF Low Level RF Assembly Complete Finish Tunnel Installation Service Bldg Installation RRF Low Level RF Assembly Complete Finish Tunnel Installation Service Bldg Installation RRF Low Level RF Assembly Complete Finish FY15 SD Recycler AIP Complete (g-2 Interface)
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